

Notice of Allowability

Application No.

10/692,237

Applicant(s)

KELLY ET AL.

Examiner

Art Unit

Minh D. A

2821

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/16/05.
2. ☒ The allowed claim(s) is/are 3-5, 7, 9-11, 19-21, 25-34, 35, 40, 41-49, 55-68.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 7/21/06
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


TUYET VO
PRIMARY EXAMINER

Allowable Subject Matter

1. Claims 3-5, 7, 9-11, 19-21, 25-35, 40-49, 55-68 are allowed.

The following is an examiner's statement of reasons for allowance:

Prior art does not teach that, the electrical circuit carried by the mounting member and in communication with said first and second antenna wires; wherein said means for securing comprises a first and second retaining groove, the first antenna wire is at least partially retained by said the first retaining groove, and said the second antenna wire is at least partially retained by said the second retaining groove in combination with all limitations recited in independent claim 3,

Prior art does not teach that, for securing comprises a first and second antenna wire receiving aperture, wherein an end of the first antenna wire is hook-shaped and is received by said the first antenna receiving aperture, and wherein an end of said the second antenna wire is hook-shaped and is received by said the second antenna receiving aperture in combination with all limitations recited in independent claims 9 and 19.

Prior art does not teach that, the second communication connection configured for placing the second antenna wire into communication with the integrated circuit', wherein a length of said first antenna wire extending from the tip of said first antenna wire is connected to said mounting member at a location spaced from the outer edge of said mounting member in combination with all limitations recited in independent claim 25.

Prior art does not teach that, a first antenna wire having an end and a bend, the bend in the first antenna wire received by the first antenna wire receiving aperture, and the end of the first antenna wire extending from the first side of the printed circuit board through the first antenna wire receiving aperture and to the second side of the printed circuit board; a second antenna wire having an end and a bend, the bend of the second antenna wire received by the second antenna wire receiving aperture, and the end of the second antenna wire extending from the first side of the printed circuit board through the second antenna wire receiving aperture and to the second side of the printed circuit board; an integrated circuit carried by the mounting member in combination with all limitations recited in independent claim 35.

Prior art does not teach that, the mounting member includes a flat base and said electrical circuit-is attached to said base; the first retaining connection includes a first and third pair of fingers that are semi-circular in shape and that are attached to said base and engage said first antenna wire to connect the first antenna wire to the mounting member; and the second retaining connection includes a second and fourth pair of fingers that are semi-circular in shape and are attached to said base and engage the second antenna wire to connect the second antenna wire to the mounting member in combination with all limitations recited in independent claim 40.

Prior art does not teach that, the electrical circuit carried by the mounting member and in electrical communication with the first antenna wire; wherein the mounting member has a longitudinal axis; the first retaining connection includes a first angled portion that is defined by a wall of the mounting member and is angled towards

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the longitudinal axis of the mounting member, and wherein the first antenna wire is connected to said the mounting member through engagement with the first angled portion recited in combination with all limitations recited independent claims 41 and 47.

Prior art does not teach that, wherein the mounting member is in the shape of a generally solid cylinder, the first retaining connection is a cylindrical cavity that has an annular recess, the second retaining connection is a cylindrical cavity that has an annual recess; the first antenna wire has an annular projection engageable with the annular recess of the first retaining connection; the second antenna wire has an annular projection engageable with the annular recess of the second retaining connection; the first retaining connection is urged around the first antenna wire to help connect the first antenna wire to the mounting member', and the second retaining connection is urged around the second antenna wire to help connect the second antenna wire to the mounting member in combination with all limitations recited in independent claim 55.

Prior art does not teach that, a first antenna wire incorporated in the tire and connected to the first retaining connection; a second antenna wire incorporated in the tire and connected to the second retaining connection; and an integrated circuit carried by the mounting member and in electrical communication with the first and second antenna wires; wherein said first antenna wire is gee from contact with said integrated circuit and wherein a length of said first antenna wire is connected to said mounting member at a location spaced from the outer edge of said mounting member in combination with all limitations recited in independent claim 58.

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Prior art does not teach that, shape with a solid central section and an axis, the mounting member has a flat portion on the solid central section, the mounting member includes a first retaining connection that has a first angled portion that is a portion of the wall of the mounting member that is angled towards the axis of the mounting member, the mounting member includes a second retaining connection that is a second angled portion that is a portion of the wall of the mounting member that is angled towards the axis of the mounting member; a first antenna wire incorporated in the tire, the first antenna wire is connected to the mounting member through engagement with the first angled portion of the first retaining connection; a second antenna wire incorporated in the tire, the second antenna wire is connected to the mounting member through engagement with the second angled portion of the second retaining connection; an integrated circuit mounted on the flat portion of the solid central section of the mounting member in combination with all limitations recited in independent claim 68.

The remaining dependent claims 4-5, 7, 10-11, 20-21, 26-34, 42-46, 48-49, 56-57, 59-67 are allowable for at least above reason.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Citation of relevant prior art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Prior art Hamaya (U.S. Patent No. 5,960,844) discloses a monitoring condition of a vehicle.

Prior art Balzer et al (U.S. Patent No. 6,462,650) discloses a tire module attachment mount.

Prior art Koch et al. (U.S. Patent No. 6,443,198) discloses a an active path to a patch and a tire.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh Dieu A whose telephone number is (571) 272-1817. The examiner can normally be reached on M-F (5:30 AM-2:45 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Callahan Timothy can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For

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more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



TUYET VO
PRIMARY EXAMINER

Examiner

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8/26/06